

ABSTRACT

The invention relates to the method for treatment, diagnosis and prevention of bone disease and comprises methods including inhibiting or increasing leptin synthesis, leptin receptor synthesis, leptin binding to the leptin receptor, and leptin receptor activity. The invention also relates to screening assays to identify compounds that modulate leptin and/or leptin receptor activity. The invention further relates to gene therapy methods utilizing leptin and leptin-related sequences for the treatment and prevention of bone disease.